PRODUCT DATA SHEET



LINIXIA™ DS PRO

DOUBLE STAGE REVERSE OSMOSIS DEVICE

NIPRO

LiniXia™ DS PRO

DOUBLE STAGE REVERSE OSMOSIS DEVICE

CE 0297
Class IIb

- Heat disinfection of the RO, the loop, or both; chemical disinfection mode available
- Permeate output ranging from 300 L/h to 2400 L/h
- Scalable and upgradable device
- High yield (up to 90%)
- Energy- and water-saving technology
- Configurable conductivity target setting
- Configurable A0 target and result monitoring
- Continuous monitoring of all parameters (flow, pressure, conductivity, and temperatures)
- User-friendly interface with a 12-inch color touchscreen
- Secure user access management
- Safety control system with smart warning management
- Automatic restart after power failure
- Workbench: optional remote monitoring system

Product Compliance

- The LiniXia DS PRO complies with Regulation (EU) 2017/745 (MDR) and the following standards:
  - ISO 23500-1
  - ISO 23500-2
  - ISO 60601-1-2
  - ISO 60601-1

Manufacturing Details

Legal manufacturer: NIPRO Pure Water GmbH
Country of origin: Germany

Device Lifetime

Expected service life: 10 years

Materials Used

- Stainless steel 316
- PP
- PA 66 GF 30 nat + EPDM + stainless steel
- PA 6.6 glass fiber + stainless steel
- Glass-filled polypropylene
- Stainless steel
- PP-H + PP-R
- Stainless steel + EPDM
- Polyamide thin-film composite
- Composite polyamide + PP
- Special graphite + PPE, PS
- Stainless steel + PTFE
- Plastic
- Incoloy 825 + stainless steel 316
- PP-R
- PP-R + EPDM
- Stainless steel 316+EPDM
- EPDM
- PTFE
- Polyurethane

PRODUCT RANGE OVERVIEW

Reference code
RO-LNXDSP-3-UG
RO-LNXDSP-5-UG
RO-LNXDSP-7-UG
RO-LNXDSP-10-UG
RO-LNXDSP-12-UG
RO-LNXDSP-15-UG
RO-LNXDSP-17-UG
RO-LNXDSP-19-UG

Technical data

Permeate performance / Feed quantity

LiniXia DS Pro

Number of membranes	2+1	3+2	4+3	6+4	7+5	8+7	9+8	12+7
Average permeate output (L/h) at 15°C and 14 bar transmembrane pressure	300	600	900	1200	1500	1800	2100	2400
Minimum feed flow rate at 3 bar dynamic pressure	1500	2000	2500	3000	3500	4000	4500	5500

Inlet water

Quality	Potable water
Hardness	< 1 °dH
Silicate	< 25 mg/L
Chlorine	< 0.1 ppm (mg/L)
Iron	< 0.1 ppm (mg/L)
SiO_2	< 30 ppm
Fouling Index (SDI)	< 3
Temperature	5-30°C
Conductivity	<1500 µS/cm
pH	6.5 - 8.5
Pressure	3-6 bar

Connections

Water Supply	Potable water, connection, tri-clamp D50.5
Drain	HT 50

Electrical data

Variant	Supply	Consumption
LiniXia DS Pro	CEE 400 V AC, 50/60 Hz	Max. 22 kW

Display system

Conductivity C1, C2	0-2000 µS/cm ±10%
Conductivity C3	0-200 µS/cm ±10%
Pressure sensor P1, P4	0 to 25 bar ±5%
Pressure sensor P5, P6, P7, P8, P9	-1 to 9 bar ±5%
Flow sensor F1, F2	0 to 1800 L/h ±10%
Flow sensor F3, F4	0 to 3600 L/h ±10%
Level sensor L1	0 to 40l ± 10%
Level sensor L2	0 to 400l ± 10%
Temperature sensors	0 to 100°C ± 0.5°C

Ambient conditions

Storage / Transport	3–40°C
Operation	10–35°C
Relative humidity	<90% at 20°C, non-condensing
Air pressure	795–1062 hPa

Size



1st Stage unit (mm)	Weight (kg)
1110 x 750 x 1834	280



2nd Stage unit (mm)	Weight (kg)
1110 x 750 x 1834	220



Loop tank unit (mm)	Weight (kg)
1110 x 750 x 1834	221



Trolley (mm)	Weight (kg)
1100 x 750 x 1650	80 to 120

Packaging Details: Outer box

Quantity (pcs)	L (cm)	W (cm)	H (cm)	No. of membranes
3	120	80	200	Up to 4+3
4	120	80	200	5+4
5				6+5 and above

Number of outer boxes per Euro pallet

1

Languages

One language on all packaging levels

English (EN)

Transport conditions

Temperature between 3°C and 40°C. Protect the unit against frost and moisture. Protect against strong jolting and collisions. Transport the unit only in an upright position using suitable lifting equipment.

Storage conditions

Store at temperatures between 3°C and 40°C

Label details

	Individual unit	Outer box
Product name	✓	✓
SN	✓	✓
CE 0297	✓	✓
UDI	✓	✓
	✓	✓
	—	✓
MD	✓	✓
	✓	✓
	✓	✓
	✓	—
3°C - 40°C	—	✓
	—	✓

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